

Ground Surveillance Radar

GR05



The GR05 is a family of tactical ground surveillance radars (GSR) designed to provide 360° coverage with just one rotating radar.

Featuring a high update rate of targets, the GR05 delivers high probability of target interception and supports the missions of military and para-military law enforcement units.

The GR05 lightweight, all-weather, movement detection radar is designed to detect, alert and monitor intruders' movements in protected and selected zone of interest.

This solid state, continuously rotating Low Probability of Interception (LPI) dual-beam radar is rapidly deployed and features low power consumption.

The GR05 radar can be locally or remotely controlled, either as a standalone radar or integrated in a larger ground surveillance network.

Features

- Simple installation and fast deployment
- Track While Scan up to more than 200 targets
- 360° continuous coverage
- Standalone or integrated with other surveillance systems
- Operates 24/7 in rough terrain and all weather conditions
- Lightweight, portable, carried by one person
- Remote operation by wire or by wireless Communications
- Low Probability of Interception (LPI)
- High reliability – full solid-state design
- Events recording (optional)
- Quick and easy training

Applications

- Border surveillance and protection
- Critical infrastructure protection
- Harbor surveillance

Specifications

Radar type: Pulse Doppler
 Frequency: X-Band
 Transmitted power: 10W peak, 1W average
 Weight: +/- 30 Kg
 Dimensions: 305(W) x 550(H) x 330(D)
 Energy consumption: < 80W
 Operating voltage: 20 to 32 VDC
 External Communications: LAN

Environmental conditions

Operating temperature: -30°C to +50°C
 Storage temperature: -40°C to +85°C
 Rain: According to MIL-STD-810F
 Humidity: According to MIL-STD-810F
 Solar radiation: According to MIL-STD-810F
 Vibrations: According to MIL-STD-810F
 EMC: According to MIL-STD-461E

	GRO5ER	GRO5LR
Detection range		
- Pedestrian	10000m	15000m
- Vehicle	20000m	25000m
Min. Detect. Range	50m	50m
Min. Detect. Velocity	1km/h	1km/h
Range resolution	8m	8m
Range accuracy	1m	1m
Azimuth accuracy	0,5°	0,3°
Altitude coverage	8°	5°
Sector coverage	360°	360°
N°. of tracked targets	200 by TWS	200 by TWS
Track update rate	+/- 5sec	+/- 10sec